



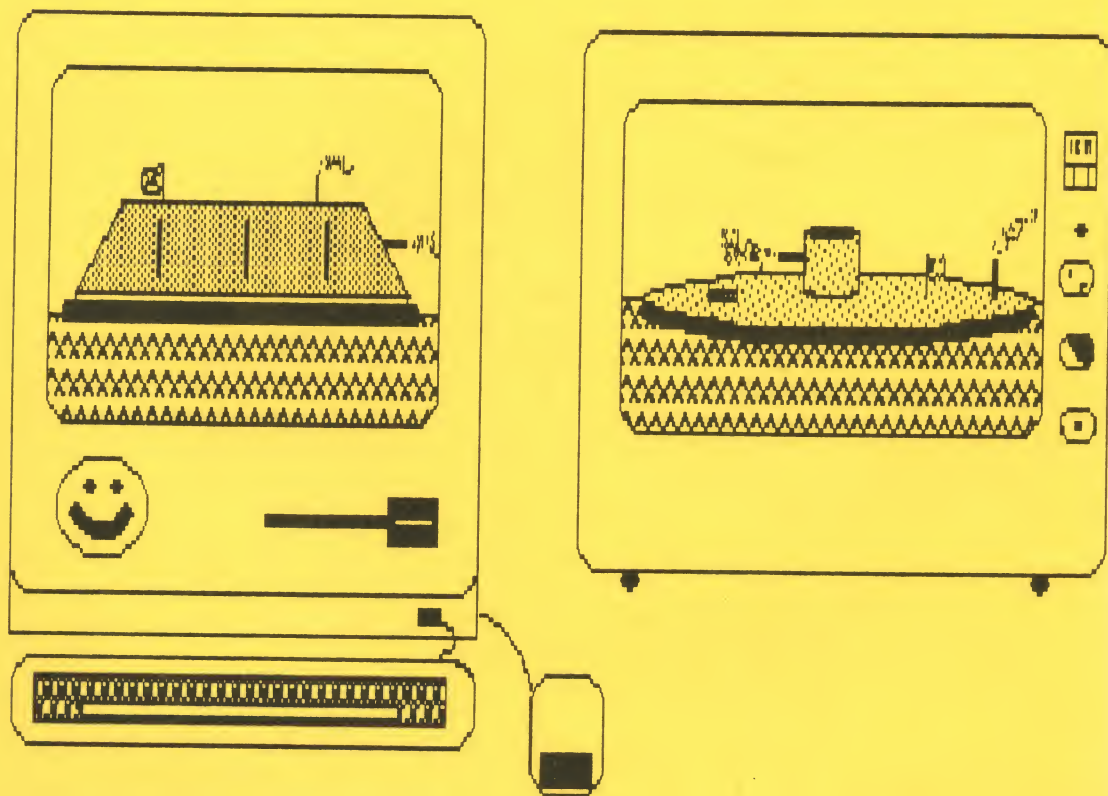
# ENERGY

\$1.50

ENERGY =  $MC^2$ ...THE MICHIGAN COMPUTER CONSORTIUM MAGAZINE

ISSN: 0740-2759

SEPTEMBER 1986



# Cables and Accessories

by

## ***BASIC CABLE***

CABLE		PRICE
IP	standard IBM parallel to Centronics, 8 ft	\$ 12.00
ATMF	AT to Hayes type modem, 8 ft	\$ 13.50
GPADP	printer adapter, RS-232, pins 2 & 3 reversed	\$ 12.00
GNUL	null modem, RS-232, male-female	\$ 12.00
IJOY	IBM PC joystick	\$ 22.50
ACADP	male-female ac adapter for monitor, 6 ft	\$ 7.50

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microcomputer division  
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(517) 482-0643

## ABOUT ENERGY

**ENERGY** (ISSN 0740-2759) is published monthly by the Michigan Computer Consortium, Inc., P.O. Box 1302, East Lansing, Michigan 48823.

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Subscriptions to **ENERGY** are provided as a benefit of membership in one of the clubs constituting the Consortium. For information about joining one of the clubs, refer to the club data section of this issue or write to the club in care of the Consortium at the address above. Individual copies of **ENERGY** can also be purchased at many greater Lansing area locations.

Please check the mailing label on each issue of **ENERGY** that you receive. Notify your club officers if your address changes. The date on the **ENERGY** mailing label is a reminder of your current membership term.

## ABOUT THE MICHIGAN COMPUTER CONSORTIUM

The Michigan Computer Consortium was formed in 1983 to sponsor joint activities involving member clubs. Current members of MC<sup>2</sup> are:

AppleLUG	Apple Lansing Users Group
CCUG	Color Computer Users Group
CHAOS	Capitol Hill Atari Owners Society
M <sup>3</sup> G	Mid-Michigan Microcomputer Group
UPCO	Users Personal Computer Organization

## EDITORIAL BOARD

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## ADVERTISING

Your advertisement in **ENERGY** will reach over 500 active computer users in the greater Lansing area. Four sizes of ads are available, with discounts provided for multi-issue contracts. Camera-ready ad copy is generally needed by the 15th of the month preceding publication. Limited graphics artwork is available at an extra charge. For more information, contact the Advertising Manager listed above.

## ARTICLE SUBMISSIONS

Members are strongly encouraged to submit articles. Contact your club's Editorial Board representative. We generally use compressed mode printer copy with 3.5 inch columns and 8 lines per inch. Deadline for articles is the 15th of the month preceding publication.

### ABOUT OUR COVER

This month's cover is an involved pun, depicting the battle between the Monitor and the Merrimac, a classic naval battle of ironclads from the Civil War. The artwork is by Cameron Dean, a member of UPCO who suffers from a strange sense of humor. It was done on an IBM PC/AT using Microsoft Windows Paint, and has been reduced from its original 8.5 by 11 inch size.



AUGUST 1986  
 SU MO TU WE TH FR SA  
 1 2  
 3 4 5 6 7 8 9  
 10 11 12 13 14 15 16  
 17 18 19 20 21 22 23  
 24 25 26 27 28 29 30  
 31

# CONSORTIUM CALENDAR

SEPTEMBER 1986

OCTOBER 1986  
 SU MO TU WE TH FR SA  
 1 2 3 4  
 5 6 7 8 9 10 11  
 12 13 14 15 16 17 18  
 19 20 21 22 23 24 25  
 26 27 28 29 30 31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 Labor Day	2 M3G EXEC	3 LACC	4 LAMALUG	5 CMARC	6 CCUG
7	8 TI USERS GROUP	9 HEATH SIG	10	11	12	13
14 AMIG ENERGY DEADLINE	15 M3G	16	17	18	19 CHAOS APPLE LUG	20
21 CMTUG	22 UPCO (IBM PC)	23	24 CP/M SIG	25	26	27
28	29	30				

## LANSING AREA COMPUTER CLUBS

ACM (Association for Computing Machinery)  
 Will not meet again until fall. Contact Lew Crippen  
 377-6636 (days) 371-3179 (evenings); Mary Dike or Walt  
 Davis 377-6636 (days)

AMIG (Amiga Mutual Interest Group)  
 Meets Third Monday, 7:30 PM; 255 Physics-Astronomy  
 Building, MSU. Contact Ray Ettinger, 646-6503.

Apple LUG (Lansing Users Group) (MC2)  
 Meets 3rd Saturday, 9:30 AM; 102 South Kedzie Hall,  
 MSU, East Lansing. Contact PO Box 27144, Lansing, MI  
 48909; Gary G. Martin 394-0115 after 6 PM.

CAPKUG (Capitol Area Kaypro Users Group)  
 Will not meet again until fall. Contact C. Stewart,  
 882-7821.

CCUG (Greater Lansing Color Computer Users Group) (MC2)  
 Meets First Saturday, 1:00 PM; East Lansing Public  
 Library, 950 Abbott, E.L. Contact PO Box 14114,  
 Lansing, MI 48901; Dale Knepper (president) 626-6917.

CHAOS (Capitol Hill Atari Owners Society) (MC2)  
 Meets 3rd Saturday 10 AM; 118 Physics-Astronomy Bldg.,  
 MSU, East Lansing. Contact PO Box 16132, Lansing, MI  
 48901; Leo Sell (president) 393-7792.

CHAOS STING (ST Interest Group)  
 Meets 2nd Saturday, 10 AM; 118 Physics-Astronomy Bldg.

CMARC (Central Michigan Amateur Radio Club)  
 Meets 1st Friday, 8:00 PM; American Red Cross Bldg.,  
 1800 E. Grand River, Lansing. Contact Bill Hineman  
 NBALL (president) 323-2914.

Comp Klub of Lansing (TI Users Group)  
 Meets 2nd Tuesday, 7:00 PM; Computer Consignments, 5501  
 S. Cedar, Lansing. Contact John Hayes 882-7860.

The Commodore Club (of St. Johns)  
 Meets Every Tuesday night, 7-10 PM. Contact David  
 Smalldon 224-4678, evenings.

DECUS GLLUG (DEC Users Greater Lansing Local Users Group)  
 Meets Approximately every 2 months at a local DEC user.  
 Contact C. M. Watson (secretary) 483-1111 (days).

## DRUG (DEC Rainbow Users Group)

Meets 2nd Saturday, 11:00 AM; Institute for Family &  
 Child Study, Home Management House #2, MSU (next to  
 Berkey) Contact Jeffrey Wehl 353-3717 (days) 349-6967  
 (evenings).

## LACC (Lansing Area Commodore Club)

Meets First Wednesday, 7:00 PM; All Saints Episcopal  
 Church, 800 Abbott, E.L. Contact PO Box 1065, East  
 Lansing, MI 48823; Jae Walker (president) 351-7061.

## LAMALUG (Lansing Area Mac and Lisa User Group)

Meets monthly; different day in first week; 6 PM  
 dinner; 7 PM meeting; Bonanza, 6727 S. Cedar, Lansing.  
 Contact Dick McCarrick (Computer Consignments),  
 394-4408; Charles Winters 787-5731.

## M3G (Mid-Michigan Microcomputer Group) (MC2)

Meets Third Tuesday, 7:00 PM; Foster Community Center,  
 200 N. Foster, Lansing. Contact PO Box 1302, East  
 Lansing, MI 48823; Warren Wolfe (president) 337-7672.  
 Executive Meetings First Tuesday, 7:30 PM; Beggar's  
 Banquet, 218 Abbott, East Lansing.

## M3G CMTUG (Central Mich. TRS-80 Users Group) SIG (MC2)

Meets Third Sunday, 4:00 PM, DeWitt Memorial Building,  
 206 N. Washington, DeWitt. Contact Lee Hodges  
 669-3258

## M3G CP/M SIG (MC2)

Meets Last Thursday, 7:30 PM; Foster Community Center,  
 200 N. Foster, Lansing. Contact Tim Childs 321-4072.

## M3G Heath/Zenith SIG (MC2)

Meets 2nd Wednesday, 7:30 PM; All Saints Episcopal  
 Church, 800 Abbott, E.L. Contact Tom Trana, 351-8655.

## M3G Osborne SIG (MC2)

Contact Larry Tirone 484-3921.

## MSU MUG (MSU & Capitol Area Macintosh Users Group)

Meets Monthly during MSU school year. Contact John  
 Sykes 332-6720.

## U.P.C.O. (Users' Personal Computer Organization--IBM PC group) (MC2)

Meets 4th Tuesday, 7:30 PM; 223 Natural Resources  
 Bldg., MSU. Contact Skip Osterhus 321-3425.

Clubs designated (MC2) are members of the Michigan Computer  
 Consortium.

This listing is as accurate as the information we receive.  
 To list an event or update information, contact Joe Werner  
 at 337-7415 (evenings), or on the local BBSs BabbleNet or  
 LSJ Access, or via MCI Mail (JWERNER).

The Michigan Computer Consortium would like to recognize the following clubs for currently being responsible for the monthly production of ENERGY. (Check the CALENDAR page for other club meetings.)

Apple LUG    Mailing address: APPLE L.U.G.  
P. O. Box 27144  
Lansing, MI 48909

Contact person: Gary Martin

phone: 517-394-0115  
(after 6:00 p.m.)

WHO: An organization of Apple users in mid-Michigan.

WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.

WHEN: Meetings are 3rd Saturday of the month at 9:30 a.m.

WHERE: Room 102, South Kedzie Hall on the MSU campus. The NW corner of Farm Lane and Auditorium roads.

EXTRA: Public-domain library, ENERGY newsletter, tutorials, and special interest groups (SIG's).

HOW MUCH: Dues are \$12.00 a calendar year or \$1.00/mo prorated.

CCUG    Mailing address: CCUG  
P. O. Box 14114  
Lansing, MI 48901

Contact person: Dale Knepper

phone: 517-626-6917

WHO: An organization devoted to Color computer and MC6809.

WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.

WHEN: Meetings are 1st Saturday of the month at 1:00 p.m.

WHERE: East Lansing Public Library  
950 Abbott, East Lansing, MI

EXTRA: Public-domain library, ENERGY newsletter.

HOW MUCH: Dues are \$12.00 a calendar year or \$6.00 under age 18.

M3G    Mailing address: M3G  
P. O. Box 1032  
Lansing, MI 48823

Contact person: Warren Wolfe

phone: 517-337-7672

WHO: Open to general computer interests of all types.

WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.

WHEN: Meetings are 3rd Tuesday of the month at 7:00 p.m.

WHERE: Foster Community Center  
200 North Foster, Lansing, MI

EXTRA: Public-domain library, ENERGY newsletter, and special interest groups (SIG's).

HOW MUCH: Dues are \$12.00 a calendar year.

UPCO    Mailing address: Skip Osterhus  
219 Schooner  
Lansing, MI 48917

Contact person: Skip Osterhus

phone: 517-321-3425

WHO: IBM and compatibles owners/users in mid-Michigan.

WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.

WHEN: Meetings are 4th Tuesday of the month at 7:30 p.m.

WHERE: Room 223, Natural Resources building on the MSU campus located south on Farm Lane road.

EXTRA: Public-domain/shareware library, ENERGY and EXCHANGE newsletters, club bulleting board.

HOW MUCH: Dues are \$5.00 per person per 12 months.



THE USER  
by Joe Werner

My goodness! Here it is, time for school to start, the leaves to fall. And I haven't even gotten going on summer yet. How quickly the seasons pass.

I write this a week before the Midwest Affiliation of Computer Clubs (MACC) Computerfest<sup>TM</sup> '86, in Dayton, Ohio. This is the eleventh year for Computerfest, making it one of the oldest micro shows in the nation. I'll try to let you know if anything exciting happens.

Speaking of shows, MSU will be sponsoring a non-commercial show called "Compute" on November 7 & 8 at the MSU Union. It should be a fun time.

Also coming up is a commercial show, put on by some of the people whose volunteer effort made the Consortium's Computer Show such a success last May. These folks are doing a for-profit show which is not sponsored by the Consortium, currently planned for October 19th at the Clarion. We wish them well.

The Consortium is also beginning to plan for their next show. We'd like to see another Consortium show next Spring, building on the success of the Consortium show this past May. To put such a show on will require a lot of ideas and volunteers. Please get in touch with your club's chairman or Consortium representative to share your comments now, while we're in the early planning stages. Let's make the Consortium's computer show an annual success!

#### Turbo Pascal and TurboRef

Last March, I wrote briefly about Turbo Pascal and a package from Gracon Services in Okemos called TurboRef. Block-structured languages like Pascal are very nice languages in which to develop "real" programs, and Turbo Pascal is a nice environment in which to develop Pascal programs. But all too often, a programmer can get lost in the details of a program. At that point, it is nice for a programmer to be able to get a "pretty-printed" listing of the program, with structure clearly marked and lines indented to emphasize the structure. A cross-reference of variables is also nice. (A cross-reference is a listing of every variable, constant, and/or literal in a program, along with a reference to every line in the program where the entity is referred to.)

Gracon recently sent me a copy of TurboRef version 4.0. I am chagrinned to admit that I have barely had time to open the manual, let alone try it out yet. But the new version

appears to be faster, and can be configured for non-standard printers.

If you're programming in Turbo Pascal, a utility like TurboRef can help you solve problems, can save you aggravation, and can pay for itself very quickly. If you haven't yet discovered Turbo Pascal, you are missing a good development environment and a useful language.

#### Rear Adm. Grace Hopper Retires

Rear Admiral Grace Hopper, the nation's oldest active military officer, retired in ceremonies held August 14, 1986, on board the USS Constitution, the Navy's oldest commissioned warship.

Adm. Hopper is 79, and has remained on active duty since the normal retirement age of 62 by yearly extensions approved by Congress. She has a Ph.D. from Yale, taught mathematics at Vassar College, and joined the Naval Reserve in December, 1943. She learned to program during the war, and was instrumental in defining the computer language COBOL.

She is called the "Grand Old Lady of Software". Anyone who has heard her speak treasures the experience. She was the subject of a segment on "60 Minutes" a few years ago, and her wit and wisdom shone. Her retirement is a loss for the Navy, but I'm glad to see that she is retiring while she is still young enough to enjoy it.

#### Eugene Loyd -- In Memoriam

It is with sadness that I note the passing on July 19th of Eugene Loyd. Eugene was young of mind and spirit, if not of body. He was influential in the formation of the Comp Klub of Lansing, the local T1 99/4A user group. He worked hard for the club, and had recently been elected President. He also took part in the planning for the last Computer Show. I didn't know Eugene as well as I would have liked, and that says a lot. Our sympathy and best wishes go to the Comp Klub and to all of Eugene's friends and family. We are grateful to have known him. He will be missed.



## THERE'S NO SUCH THING AS A DUMB QUESTION

by  
Ginny Werner

I had several teachers in my life tell me that there's no such thing as a dumb question. I did not believe them. My brother had convinced me there were dumb questions and that I must be really stupid to ask them.

What I didn't take into account at the time was the fact that I was 5 and he was 12. He'd had more than twice my experience (not to mention 7 years of formal education that I was just starting) and was going through one of those stages where he wanted everyone to know how smart he was. As a 5 year old I didn't have the judgement to realize this. I felt stupid.

When I first started going to M3G meetings I didn't ask questions because there were so many people there with so much more experience on personal computers than I had. I felt stupid and I didn't want anyone to ridicule me. Now I realize that I need to ask questions. Sometimes I need to have more information in order to be able to follow a conversation. Sometimes I need to have more information to be able to complete a project. Sometimes I need to make sure that I have understood something properly.

Asking a question does not mean that I am stupid. It means that I do not have the information that I need and that I am smart enough to realize it.

I also realize that sometimes I will not get the answer that I want. I may not have asked the question properly or I may not have the background needed to understand the answer or the person I asked may not have the answer. Often I will need to ask the question several times or I will need to ask several people the question. Sometimes I realize that I have gotten enough information for the current purpose and I don't need to have the question answered fully.

Part of the problem is that there is so much information out there. It is difficult enough to keep up with the areas that I am interested in without having to worry about things that are less important to me.

So don't be afraid to ask questions. If you really think your question is dumb, write to me (care of ENERGY) and ask it. I'll do my best to get an answer and nobody will have to know who really asked the question. If I think the question is of general interest, I will publish the answer here in ENERGY.

## We work with you to solve your problems.



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### LEARN TO PROGRAM IN BASIC!

The adult education class entitled, "BASIC Computer Language I," is taught Thursday nights from 7 to 9 p.m. at the Perry High School computer lab. Classes begin September 11, and run for 10 weeks. The fee is a very modest \$25.00 for the entire course. This is an enrichment class, and is open to persons of all ages.

Your instructor is Konstantin J. Zsigo, a rather well-known name around Lansing in the area of computers and programming. The class is informal and begins at the novice level. Instruction focuses around group interest and discussion. Everyone learns a lot!

To reserve your seat in the class or get more information, call Perry High School during the day at 625-3104. Perry is about 20 minutes from Lansing. The instructor can be reached at home after 6:00 p.m. at 723-3947.

--"After learning to program just a little, I was amazed at how easy using my computer at work became!"



## AMIGA/PC Compatibility?

by

Ken Kawamura

Good news and bad news. The Amiga can apparently run PC-DOS 3.1 and PC programs. But there is no communication between AmigaDOS and PC-DOS; neither can they read each other's disks.

My configuration is a 512 K Amiga with 3.5 internal drive "DF0:", 3.5 external drive "DF1:", 5.25 external drive "DF2:", and Star NX-10 dot-matrix printer as "PRT:". By coincidence, "Transformer" came with "SetAPPrefs" configured for exactly this arrangement. That is, PC-DOS disk drives "A:", "B:", "C:" mapped to drives "DF2:", "DF1:", and "DF0:", respectively, and PC-DOS printer "LPT1:" mapped to the Amiga DOS printer "PRT:".

I bought my Amiga now instead of later, because the 5.25 disk drive came with the "Transformer" to let the Amiga emulate an MS-DOS machine (PC-DOS is a customized MS-DOS). I was annoyed to discover that, like some of the cheaper PC clones, the "Transformer" came without MS-DOS. That meant that, after booting the "Workbench" in the usual way, I inserted the "Transformer" disk into "DF1:", double-clicked the icon for the "Transformer" disk, then double-clicked the icon for "AMIGA transformer" (after looking into "SetAPPrefs" and deciding to go with the defaults), and I found myself being asked by the Amiga to "Please insert a DOS diskette in drive "A:", the 5.25 drive. But I didn't have a DOS disk. Voila, my Amiga was emulating a dead-in-the-water clone.

After calling around, the only place I could find that said they could sell me an MS-DOS was Computerland. I got a ride over to the store only to discover that they had PC-DOS 3.1 and several MS-DOS's configured for particular machines but there was no such thing as a generic MS-DOS. This wasn't quite what I had expected, but after thinking it over I bought the PC-DOS 3.1 for \$59.50 plus \$3.12 sale tax, total price \$62.62.

I got it home and read the "Transformer" documentation which says it needs DOS 2.0 or higher. So far, so good.

I inserted the disk marked "PC-DOS 3.1" at the prompt and was pleasantly surprised to see PC-DOS come up. I replaced the "Transformer" disk with a blank 3.5 inch disk and proceeded to make a backup using "DISKCOPY A: B:". I did some poking around, then exited back to the "Transformer" disk window and used "SetAPPrefs" to reassign the DOS drives as "A:" is "DF0:", "B:" is "DF1:", and "C:" is "DF2:". Now I could use the

internal 3.5 drive "DF0:" as DOS "A:" to boot DOS, leave the 3.5 inch DOS disk there, and be able to read and write a 5.25 disk in DOS "C:". I did a "DIR A: > LPT1:" to verify that PC-DOS could see files on the 3.5 DOS disk and could get to the printer.

Then I tried to run PC-DOS programs. I happened to have a demo disk of "ALICE: The Personal Pascal", and so I ran its demo program. Beautiful. I'm now waiting for a copy of Bruce Wilcox's "NEMESIS" Go-playing program which I hope will run.

I got back to AmigaDOS and tried to look at at PC-DOS 3.5 inch disk. No luck. "Workbench" reports "Unreadable Disk", which is consistent with the Amiga documentation. This means the Amiga, running as an Amiga, cannot even read data off a PC disk, and running as a PC, cannot write to an AmigaDOS disk. Very disappointing.

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## ASSOCIATION FOR SYSTEMS MANAGEMENT TO MEET

The local chapter of the Association for Systems Management (ASM) will meet on Tuesday, September 20, 1986, at the Harley House Hotel, 3600 Dunckel, Lansing (at the Jolly Road exit from I-496). Cocktail hour starts at 5:30 pm, with dinner to follow. The program, scheduled for 7:00 pm, will be "MAP and TOP - the Coming Revolution", presented by Joe Werner.

For more information about the meeting, contact Arrangements Chair Joyce Linne at 487-4773 (days). For more information about ASM, contact chapter President Richard Olson, CSP, at 323-7000 ext. 289 (days).

## MAP AND TOP - THE COMING REVOLUTION

Business today is increasingly information-driven. System incompatibilities and the difficulties in communicating between equipment are the biggest impediments to the effective delivery and use of computer-generated information. MAP (the Manufacturing Automation Protocol) and TOP (the Technical and Office Protocol) are two closely-related protocols which will offer users the means to bridge islands of information and solve problems in office or factory automation. Joe Werner will present an overview of these two protocols, and explain why MAP and TOP will be important in our future.

## JOSEPH W. WERNER, CDP

Joseph W. Werner is President of K.A.T. Associates, Inc., an Information Systems Consulting company located in East Lansing. He has been active in data processing for nearly 20 years, and has dealt with many different types of computers and applications in that time. His specialties are Data Communications and networking, and the use of personal-sized computers. He has worked for Burroughs Corp., Systems Research, Inc., and Compu-Tec Support, Inc.; was a part owner of a retail computer store; and has consulted with several firms, including GM and EDS. He is active in many professional societies and user groups. He holds the CDP (Certificate in Data Processing) and the CCP (Certificate in Computer Programming).

ENERGY magazine is sold locally at five computer, software and book stores: Community Newscenter, Frandor; Direct Access Computing, 2824 N. Grand River; Computer Consignments, 5501 E. Cedar; Computer Connection, 2495 N. Cedar, Holt; and Software City, 4661 Okemos Rd., Okemos. These businesses make ENERGY available to customers that need the support that user groups provide. These stores care about us and deserve our business.

Terry Feichtenbiner

# MICHIGAN COMPUTER NEWS

An information source and shopper's guide  
to Mid-Michigan computer users  
to help keep you as well informed as possible.  
All this is available at the low annual rate  
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# APPLE LUG NEWS

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## Apple LUG Officers

<i>President:</i> Arie Koelewyn	1382 Red Leaf Lane, East Lansing	332-6988
<i>Vice-President:</i> Jim DeNike	3882 Okemos Rd., Okemos	349-3714
<i>Secretary:</i> Gary G. Martin	822 W. Willoughby Rd., Lansing	394-0115
<i>Treasurer:</i> Dick Ferris	502 W. Columbia St., Mason	676-9507

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## PROGRAM THIS MONTH

This month we will once again try to show you a new hard drive that has come out. The drive is made by the ProApp Company. If by chance we do not get it, then we'll think of something else that you will be interested in. As usual we will be meeting in room 102 at South Kedzie Hall on the M.S.U. Campus starting at 9:30 a.m. The program will be September 20th.

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## WHAT'S A USER GROUP by Jim DeNike

Anyone who ever wondered what a users group is, probably hasn't attended too many meetings. A users group is not a monthly newsletter that you get from your mailbox. A users group is not someplace you go only when you have a problem with a specific software or hardware configuration. Instead, a users group is a place where you can go to answer questions as well as ask questions. It is also a good place to meet others that have the same kind of computer that you have. If the only people that go to a users group are the ones that ask questions, who will have the answers when you decide to show up at a meeting?

We need you at the meetings, and if you show up and have a few questions answered, you'll see that you can contribute to the meeting too. You may not be an expert with everything your computer does, but I'm sure that if you

go to a meeting and listen to some of the other members, you'll see that we all have our strong and weak areas. I myself like telecommunications and I dabble in ProDOS a bit. Our new president, Arie Koelewyn is what I would consider one of the better Apple programmers around. You should see some of the stuff I have seen that he has written. We also have Konstantin Zsigo who has just started a software company called Charlie Software. What do these people get from a users group? They ask questions just like anybody else and they answer questions when someone stands up at the back of the room and asks something.

The only dumb question is a question never asked. When you don't show at a meeting, it hurts everyone. You might be the only one with a XYZ printer interface on a //e with an Epson/Panasonic Fujo Printer and AppleWorks that knows how to get a hard copy to the printer. Remember the last time you struggled with a piece of software and couldn't get it to do what you wanted it to do? Wouldn't it have been nice to have three or four other user group members trying to tackle the same problem with you? Of course it would, and you would all learn from the experience.

I hope to see you at the next Apple L.U.G. meeting. I would like to get to know what you would be interested in seeing done at the meetings. As a User Group we have quite a few opportunities to try out new hardware and software as it comes out. Let me know

what you want to see at the meetings in the coming months. With Apple's renewed interest in Users Groups this could be a good year to attend your meetings.

I can be reached by any modem users on LSJ-Access BBS (8,N,1 300/1200), at 482-8144. Just leave a message to SYSOP or if you are a registered user of LSJA leave the message in either the Apple Section or the E-Mail section.

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### NOTES OF INTEREST

#### PRODOS SUBDIRECTORY NOTE

by Jim DeNike

While working with a program a few days ago that had quite a few subdirectories in ProDOS (DIR type file on disk), I noticed that I was able to catalog the subdirectory with out giving the /DISKname prefix. Example:

/DISK:A NAME	TYPE
FILE.1	BAS
FILE.2	DIR
FILE.3	DIR

If /DISK.A is in your prefixed drive (usually Drive 1, but not always), you can catalog the subdirectory FILE.2 with the command : CATALOG FILE.2, rather than the normal way that Apple says to do it: CATALOG /DISK.A/ FILE.2 . I know it isn't much, but it does save a few key strokes.

We would like to hear of any shortcuts you have found for programming. Remember, the shortcut might be old news to you, but it may save someone else quite a bit of time trying to do it the long way.

#### APPLE 800 NUMBER

Apple recently has set up a 800 number on a trial basis for several states in the mid-west area. The number is for the CUSTOMER RELATIONS department . You can call them at 1-800-FOR-APPLE (1-800-367-2775). This department is for you let Apple know about your concerns, respond to your feedback, and to pass this information on to the appropriate Apple decision makers.

This number has not been set up to get technical support on as Apple wishes you to still contact your Dealer in regards to that. You can reach CUSTOMER RELATIONS from 7:00 a.m. to 4:00 p.m. Pacific Time for the test period from July 1st until September 30th. After this time you can still reach them at 408-973-2222.

#### WORDPERFECT

The WordPerfect Corp. has sent us an offer that allows members of Apple L.U.G. to purchase the newest version of WordPerfect at a gratly reduced price. The program lists for \$179 but we may purchase the program for \$75. The only thing that the company requires is that you must buy directly from one of their Dealers. We have arranged this with Marshall's Computer Supplies from Haslett. All you need to do is call Dale Marshall at 349-4671 and make the arrangements with him. He must have your order by 9-10-86 in order to get the programs before the special offer expires in September.

#### MANUALS FROM APPLE

As many of you may know already, the manuals from Apple are now printed by the Addison-Wesley Co. Recently the have changed their phone numbers and what follows are the correct numbers.

To place orders : 800-447-2226

Customer Service : 800-447-2244

Call between 9:00 a.m. & 4:30 p.m. EST.



## CHECKMATE TECHNOLOGY MEMORY EXPANSION BOARD

by Dick Ferris

I recently purchased the Checkmate Technology RGB board for my Apple //e through a special offer to our User Group by Checkmate and after having set it up with the AppleWorks expander software that was provided with the board I am very pleased to give a report on how it works and how to set AppleWorks up to do the most work for your application.

The installation went just as the manual said it would. Checkmate Technology does have a toll free 800 Watts line available for any hardware or software problems that the end user may have. This is definitely something to look into when purchasing a RAM card.

The MultiRAM AppleWorks expansion software allows the database to have a maximum of 23,000 database records in memory at one time, word processing lines are increased to 4,850 (memory permitting), and compatibility with all ProDOS clock cards. The manual clearly states that when you have larger files, some of the AppleWorks options are slowed down (sorting, deleting, moving). After using a sample database file that was rather large, I tend to agree that sorting and deleting are slowed down considerably. The software isn't where the blame should be put on the slower speeds, as the increased size of the files are just putting an added load on the processing capabilities of the 8 bit Apple CPU. The keyboard input such as typing fast doesn't seem to be slowed down at all. The newest version of the AppleWorks expander software (Version 4.4) will work with AppleWorks Version 1.2 and Version 1.3 only. Checkmate has decided to write their expander programs for the newer versions of AppleWorks and are no longer writing for anything older than AppleWorks version 1.2. The version 4.4 of the MultiRAM software has a visual indicator in the lower right hand corner that will blink when AppleWorks is doing any lengthy operations such as sorting

or deleting lines in a file to let you know that the AppleWorks software hasn't crashed.

The AppleWorks expander software is all menu driven and does almost all of the work for you. It will prompt you as to when to put the AppleWorks disk in and will inform you about any other patches that you may want to install in AppleWorks. Read the screens and save your self some grief.

When you are all done expanding the backup copy of AppleWorks, your best bet, if you decide that you want a RAM disk built into Appleworks is to turn your MultiRAM disk over to the UTILITIES side and run it. Choose the option to customize Multidrive. This will allow you to graphically change how much memory you want for your AppleWorks desktop and how much memory you want set aside for the /MRAM RAM disk. After you have split the available memory up into the two portions that will suit your needs (I have mine set as follows: 384k RAM disk and 140k desktop), tell the utility program to save the changes and create /MRAM. Allow it to save the changes to MRAM.SYSTEM.

Now comes the long drawn out part. Take your expanded AppleWorks and copy PRODOS to another disk called /APPLEWORKS. After you have successfully copied PRODOS to the new disk, copy the file MRAM.SYSTEM from the utility side of the MultiRAM disk to the new /APPLEWORKS disk. This file contains the information that will set up the RAM disk and the desktop to your specifications. Copy all of the other AppleWorks files to the new /APPLEWORKS disk. You are now ready to boot AppleWorks and try out the RAM disk.

I have set the AppleWorks STARTUP disk to make the RAM disk available to AppleWorks and then auto load all of the PinPoint accessories including the entire PinPoint dictionary into the /MRAM RAM disk. To do this all you have to do is put the file BASIC.SYSTEM (I used BASIC.SYSTEM 1.1.1) on the disk so that it appears in the directory before the file APLWORKS.SYSTEM. I then

used a BASIC program that BLOADS a copy program from Nibble magazine and then loads to the RAM disk all of the pre-selected files. After the files have been loaded to memory the BASIC program runs the file APLWORKS.SYSTEM. One precaution that I have taken is to put an ONERR GOTO in the BASIC program so that if the files are already in /MRAM the program will not crash, and will instead jump to the line that runs the file APLWORKS.SYSTEM.

Note that the MultiRAM expanded AppleWorks version 1.3 will recognize the /MRAM RAM disk as a separate disk drive that can be accessed just as a normal floppy.

I have messed around a little bit with the RAM disk and non-copy protected software such as Access //, ASCII EXPRESS, and BASIC. These programs all benefit tremendously from the use of a RAM disk, and when the MRAM.SYSTEM file is installed directly after PRODOS, they have no problems with using the same RAM disk and any data store there. If you use the same configuration of MRAM.SYSTEM that you used on the expanded AppleWorks, you will be able to jump from a program such as ASCII EXPRESS directly to AppleWorks. This greatly speeds up processing TEXT files that you have downloaded from a BBS or a friends computer. The time that you save while online with another computer is quite a bit, considering that a RAM disk can be accessed about 20 times faster than a floppy drive. Next time you use your modem without a RAM disk, time how much disk access you have while online then divide that number by 20 and see what a RAM disk can do for you. If you happen to be in the middle of AppleWorks and decide that you would like to play a DOS 3.3 game, you can safely boot a game disk without hurting the files in /MRAM. When done with the game, you can re-boot AppleWorks and have the files such as the PinPoint dictionary still loaded in memory, untouched.

A lot of engineering has gone into this board and software combination. After using the

Checkmate MultiRAM RGB I can see that they aren't selling sales hype, they actually have a good product that doesn't need hype. The socketed IC's allow for easy repair and diagnosis of faulty chips, and the ease with which it installed show that Checkmate Technology is concerned about the actual user. Also the 800 Watts line and the free software updates from your dealer are definite pluses. That and the fact that Checkmate's MultiRAM is one of the larger RAM card manufacturers for the Apple // computer is a very good reason to buy from them.

---

### ANNUAL AUCTION

Once again it is getting near time for our Annual Auction. This year we are changing the time of the auction. As of right now we are planning to have it October 11th, 1986. This change is to keep it away from the Holidays coming in November and December and also to avoid the Computer Show being planned for October 19th. All readers of *ENERGY* are welcome to bring items for auction. This is not an Apple related auction only. Plan now to clean out your closets of programs and items you no longer use or need for your computer. Commercial vendors are also welcome. Details of the Auction itself will be in the next issue.

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### EDUCATION S.I.G.

Chairperson: Judy Haught

The Education S.I.G. will not be meeting during the summer. The next meeting will be September 27th at 10:00a.m. Normally we meet at the following location:

Computer CoOp  
5127 - C Aurelius Rd.  
Lansing, MI 48910  
(Corner of Aurelius and Jolly)  
Ph: 882-3041



IAC DOM 62

L.U.G. #216

Hi-Res Picture Filer  
Version 1.3. (ProDos)  
By Ken Tanaka, Denver Apple Pi

The purpose of the Hi-Res picture Filer program is to make the viewing and filing of hi-res pictures on disk easily done from one program. The program allows locking, unlocking, renaming, and deleting of files. A file can be copied from one disk to another with or without deleting the original file--useful for organizing a library of pictures. This allows you to copy picture files, or move them, without leaving duplicate files behind to be deleted. The program also has the ability to do a screen dump--send a picture to the printer. However, this feature only accommodates Epson MX80 and MX100 printers with Grafrax. This feature may also work for the FX80, FX100, RX80 and RX100 printers.

To Maximize the number of pictures which can be stored, a "Scrunch" or packing routine is included. This routine encodes a hi-res image into a compact form. When this compact information is stored to disk it takes up fewer sectors than a regular image, allowing more pictures to be stored on a disk.

Documentation, which is included on disk, tells you how to use the Hi-res Picture filer. Also included are programming notes and file description.

This disk has been formatted for ProDos. HGR Filer runs on an Apple IIe, IIc, or 64k Apple II plus.

# Nifty Works

A Review (Reprinted from  
by C. Thiesfeld mini'app'les 4-86)

L.U.G. #217

**G**uess what? There is another word processor available now. "So what!" you say. Well, this one is offered on a Mini'apples personal domain disk. (See *April Showers elsewhere in this newsletter.*) That's what's new. It has several 'Nifty' features (pardon the pun) that make it a smart investment. And, the requested fee for this Personal Domain disk is \$00.00!

When you get the disk from Mini'apples and it doesn't boot as you would expect, don't get too upset. It does not contain a disk operating system (DOS). Instead it gives instructions on how to put your own DOS on the disk. You probably already know the advantages of using an alternative to Apple's DOS 3.3. The author of Nifty Works says that ProntoDOS and Diversi-DOS load the program twice as fast but document files load at about the same speed.

The disk you receive includes the program and twenty pages of documentation, plus examples. The doc supplied is quite thorough, although some of Nifty Works' more advanced uses are not covered in detail. The author encourages duplicating the disk as long as "the provisions of the licensing agreement are followed."

Most of the editing functions are quite normal: insert/delete lines, cut/paste lines, erase lines/pages/work area, auto center, etc. However, one function called "geometric block editing" is quite unusual. Unlike the block functions found on other word processors which work on one or more lines, this function works on lines and columns simultaneously. The size of the block can be anywhere from a single character to the whole work area. The block designated is by marking the upper-left and lower-right corners with special brackets. When you press Ctrl-B, a menu appears at the top of the screen that allows you to move, copy, erase or shift the block. The shift option lets you move the block in all four directions one line/column at a time. With geometric block editing and the other

editing functions at your command, you can move and edit text in virtually every way. Adjusting forms is very easy.

About four pages of text can be written and stored in one document. Your document is saved in a normal text file which means that other programs such as a spelling checker can utilize the stored text. [Saving 4-page documents can eat up disk space but maybe a text compression "extended function" (see below) will be available in the future.] The file handling functions (load, save, lock, unlock, delete) are all available from within the program. Another feature is that only text files are displayed (via menu, of course). A second file can be merged with the current work file in memory to fill in the names or other parts of a form file. Nifty, huh?

Many features are included which indicate that the author wanted Nifty Works to be easy to use, such as:

- Free-style text entry
- Smooth scrolling text
- Scrolling speed adjustment
- 40 column proof-reading mode

On a forty column screen, the display scrolls side to side as well as up and down to follow the text entry. Even the scrolling speed can be adjusted! The author says that even the fastest typists can't out-pace this program (although my 2-finger typing could not verify this claim). It appears that a lot of effort was put forth to speed up the usual bottlenecks in word processors. A proof reading mode is available for the forty column screen.

Nifty Works has a very nice feature that allows it to select "extended functions". One extended function comes with the program that will sort the work text. This function sorts up to nine levels deep, and is also free format (multi-line). The sort can even work if some data is missing, such as middle initials

in a name list. Other extensions come with the Works User Kit.

Printer functions are not hidden characters as in many WPs. They are readable and can be customized to match the features of your printer.

Nifty Works can be used on an Apple ][+, //e or //c. It works with the extra keys, 80 columns, and extra memory on the //e and //c (if present). It uses the shift key modification, lower case chip and language card on the ][+ if they are installed. Configuration is automatic for each system.

Nifty Works is easy to learn and remember because its 40+ functions are efficiently invoked using nested menus that are always shown. This program is more than a traditional word processor, and is appropriately named 'Nifty Works'.

Nifty Info also has a "Works User Kit" which contains a more detailed Nifty Works manual with numerous examples; a utility disk; a user ID number (which permits you to obtain telephone-support for questions); and the latest version of Nifty Works. The cost of this Works User Kit is \$24.95.



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## APPLEWORKS FROM ADAM & EVE APPLE USERS GROUP

Since the last article I have had to install an extra phone line to handle the influx of calls BEGGING for the details of how to do two-column papers. One moment please; I have to remove my tongue from my cheek.

The process of making two-column, or even three-column papers isn't that terrible. I made some expedient decisions about the LAYOUT of the work before I started typing; those decisions helped me decide what settings to use.

I wanted to pack as much information on the page as I could, using RIGHT-JUSTIFIED margins, and I also wanted the print to be as readable as possible. To make the print readable, I chose to TRY a setting called PROPORTIONAL 1 (P1) on the OA-O menu.

I also wanted to Center the title and make it big letters, as well as leave sensible margins on all four edges of the paper. To accomplish these goals, I started a new document and named it. Before typing I set the following options in OA-O: TM 0, BM 2, LM .2, RM .2, PE, CI 6, CN. (See a later note about PE.) At that time, I ESCaped and typed the two titles that you see and then double-spaced. I then made a couple of changes in OA-O: JU, P1, RM 4.2, and then I ESCaped to type the body.

Some notes are in order. I am currently using LM .2 and RM 4.2, which means that I am .2" from the LEFT edge of the page and 4.2" from the RIGHT edge. That means that I am NOT using 4.4" of the paper, so a AM using 3.6". I am creating a 3.6" column on the left half of the sheet.

I type an entire column this way (on the left side) and proof and make all desired changes before I "finish" the task. You may have noticed that the Questions seem to stand out from the rest of the material. At those times, I changed to CI 10 to type the Question, then back to P1 for the text.

When I had the document in "final form", I finished up with a couple of final tasks. First I did an OA-K, which means that I KAlculated the page breaks. Then I used the cursor arrows to find the very end of page 1. I put the cursor behind the last word on the page and hit the RETURN. Then I went to OA-O and made these changes: NP, LM 4.2, RM .2, BM 2.4, and then I ESCaped. Those margin settings moved all the text below them to the right side of the screen. I changed the bottom margin because I didn't want column two to start printing where the Title was, but rather where column one started; thus I knew I wanted three fewer lines of typing in column two. I did another OA-K to find the end of page 2, put the cursor behind the last

word, hit RETURN, and went to OA-O to change back to a "left side column": NP, LM .2, RM 4.2, BM 2 and I ESCaped. Everything below these settings becomes column three, which is actually the start of the second sheet of paper. Since I wasn't putting a title on this sheet, I went back to BM 2 for the rest of the document.

I kept this process up until each "page" on the screen alternated from left to right to left, etc. With that job done, I was ready to print it out on a trial run. You might be thinking that I got each column on a separate sheet of paper, after which I pasted or taped columns side-by-side. Not so. Therein lies the beauty of knowing what some of the more "exotic" commands mean and how they can help you control your own destiny.

At the top of the document I included a command PE, which stands for 'PAUSE EACH PAGE'. It doesn't affect the screen, but it does cause the printer to print out one "page" (in this case, a column) and then WAIT for me to hit the space bar to continue printing. That pause allows me to roll the printer backward (gasp!), line up visually with the top line of column one (that alignment is an ART, not a SCIENCE; I haven't perfected it yet...), and THEN hit the space bar. Column two prints out right beside column one! I like it.

I think it is significant to note how important it is to WAIT until all editing and updating is finished before locking in the column changes. For example, if you set your NEW PAGE and margins early, and then go to add more to the first column (which is technically full to the gills), when you do an OA-K, you will see the end of page 1 (which was KAlculated by AppleWorks) followed shortly by the end of page 2 (caused by your ill-placed NEW PAGE command). If you find yourself in this predicament, you need to MOVE your commands to the proper place before proceeding.

I just took a sheet of paper to do some hand calculating of good margin settings for a 3-column paper. I decided that I would use LM .2 and RM 5.5 for column 1, LM 2.9 and RM 2.8 for column 2, and LM 5.6 and RM .1 for column 3. Those settings will produce columns 2.3" wide. The bad news is that, in CI 10 that would only be 23 characters per line (not many words), but in P1 it will allow approximately 40 characters per line. (I said approximately because proportional spacing varies slightly from line to line, depending on which letters are pressed. Each letter takes up only as much room as needed for its width to be printed.)

## Editing with BASIC--Fast and Simple.

So many people complain that it's too hard to edit BASIC programs on their apple computers. Some people have even gone as far as to suggest that a word processor is the only way to go when editing. Still others use fancy editing programs to supplement their programming. To this I must laugh, because Apple's editing features are sufficient enough and simple enough so that anyone should be able to use them without pain.

First of all: Use the screen!!! If you want to edit line 110, then you should first list that line. If you are doing something fancy or especially tricky, then list the line twice as insurance!

```
1LIST 110:LIST 110
```

Now the hard part: To edit anything you must understand that there are two modes during an edit of a line. I like to call them the movement mode, and the edit mode. The <Esc> key will toggle you between the two modes. On the Apple //c, or the //e in 80 col mode, the movement mode is distinguished from its counterpart by an inverse plus sign. Nothing is over until you say it's over by pressing the <Return> key! Remember that!! You can toggle back and forth, moving and editing like crazy until you are done.

### Example 1.

```
110 PRINT "THIS IS THE SIMPLEST EDITT"
```

Two problems, two N's in PRINT and two T's in EDIT. First of all, press the <Esc> key and move (using the 4 arrows OR the I-up, J-left, K-right, M-down) to the first I in 110. You are done moving, so toggle to the edit mode by pressing the <Esc> key once! Then, arrow over to the second N in PRINT and type an I over it. Remember, each time you arrow-over or type-over a letter, it's into the buffer. You want that! If not, use the left arrow, but be careful. You can't take the left arrow past the physical point on the screen where you entered the line. (More on that later.) Keep arrowing over until the first T in EDIT, change it to an I, and continue on to the end of the line (past the quotation mark) Then hit the <Return> key. List the line now--if something's wrong with it, or you deleted it, don't panic!! It's still on the screen (maybe even twice if you typed LIST 110:LIST 110)

This is basically simple (no pun), it gets harder when you have to insert some letters or words into the middle of a line.

### Example 2.

```
120 PRINT TAB(19); "A MIDSUMMER DREAM"
```

To insert the word NIGHT'S into the quotation, first move to the I in 120, toggle to the edit mode, and arrow over to the D in DREAM. Here's where the NIGHT'S goes, but it's not on the screen and you have no room to type it. Therefore, you have to move out of the way, type it, then return to that spot again. That's what the <Esc> key is for!! Press it now (you're back in the movement mode, move up a line or two, then press <Esc> again. Whatever you type now also goes into the buffer, so type NIGHT'S with a space after it (you need it). Then you need to move back to line 120 again, so press the <Esc> key to toggle to the movement mode, go to the D in DREAM, toggle to the edit mode, and finally arrow over the rest of the line and press <Return>. If someone's watching you they'll be amazed, but it's so simple once you get the hang of it. The idea is to move and edit, move and edit, until you are finished. Use as much of the screen as possible.

What if you blow it?? If you are in trouble, and you know it, you can abort the editing process by pressing Control-X. You won't change the memory at all that way, and the buffer is cleared.

Other goodies. When in the movement mode of editing, two keys have a special meaning. The E key clears the screen from the cursor position to the end of the line. It does not affect the memory or the buffer. The F key will clear the screen from the cursor to the end of the screen. Both keys will take you out of the movement mode and into the edit mode. Use the <Esc> key again to get you back to the movement mode if you need to be in it.

Final words of advice. Be creative! The more you get on the screen to help you, the better off you'll be. Changing line 110 to line 310 is just a matter of moving to the I in 110, making it a 3, then arrowing over. But remember, line 110 will still exist, and to erase it you must type 110 followed by a <Return> Practice makes perfect! If you need to change line numbers drastically, use the RENUMBER program supplied on your System Master diskette.

Keep word processors in their place! Woz didn't let us down with editing, we just have to work at it a little!!

-- Konstantin J. Zsigo  
Charlie Software



by Bruce K. Utter

Sometimes the best things in life really do come in small packages. Computer programs are no exceptions. People have been marveling over 2 line BASIC programs for a long time. Here, it would seem, one would find the essence of efficient and brilliant programming. What if you went one step further, and explored the wonders of a one line program? Well, one exciting day in 1984, after finding a friend who had an old copy of a program I thought was surely lost forever, I celebrated with a one liner myself. Perhaps you could think of a way to do all this in one line. Give it a try, then look to see how I did it!

Clear the screen, center this message, then return the cursor to the bottom of the screen.

```
*****
*           *
* SUPERSKETCH *
*           *
*   SERIES   *
*           *
* project    *
*           *
*   revived  *
*           *
* Aug.21,1984 *
*           *
*****
```

```
1 HOME
: POKE 32,14
: POKE 33,15
: HOME
: A$ = "*****"
: B$ = "*"      "*"
: C$ = "*"
: D$ = " "      "*"
: PRINT A$;B$;"* SUPERSKETCH *"
: B$;C$;"SERIES ";D$;B$;C$
: "project";D$;B$;C$
: "revived";D$;B$
: "* AUG.21,1984 *";B$;A$
: TEXT
: VTAB 23
```

You'll need to ram everything together as you type, and use the question mark for the PRINT statement to fit everything on one line. It is expanded here only for readability. The Poke statements freeze the left and right sides of the screen to center the message.

-- Konstantin J. Zsigo  
Charlie Software

About eight years ago, I sat in an Office Management Class and listened to an instructor describe how we were on the verge of a new era, an era that would revolutionize office operations as we then knew it, THE ERA OF THE PAPERLESS OFFICE. Being naive, I was at this same time enrolled in "Introduction to Data Processing", I sat back and was amazed that computers were going to make all this possible. Her explanation of this phenomenon to be, was the following. If everything that you wrote in an office environment could be saved on a magnetic storage device and called up at any time, then there would be no need for all those file cabinets, filled with all those file folders, filled with all that paper.

I have since taken some computer classes, had on the job programming training and, out of necessity, done a lot of selfteaching about computers. As is the case with most of you, I use computers in my work place and now I look back at that statement and marvel at its' simplicity and absurdity. My lament is not so much this deluge of paper that the combination of computers and printers are producing. It is more, my conviction that all those beautiful reports are not being put to good use, if indeed, they are being put to any use at all.

Many of you know that we are on the verge of being buried alive by the paper avalanche. I know it is now impossible to reverse the trend, but I ask you to try and bring some sanity back to our work places. Will you really use that 500 page report or listing that D.P. is compiling for you? Do you really need the tenth revision of that letter to get the BOLDFACE and underlining perfect. If you do, that's fine, then print it. But if you don't need it and probably will never look at it, then leave it undone. Once generated - a report, a listing, labels, letters are entities unto themselves. They exist. They take up space. They need to be stored. I don't know about you, but I'm running out of room.

## — GREAT — — 'PREVIOUSLY OWNED' — — HARDWARE! —

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339-1758 (office) or  
349-0843 (home after 8 pm)

# GREATER LANSING COLOR COMPUTER USER'S GROUP




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Publicist	Evonne Johnson	485-2727
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Contributing Editor	John Evans	393-4098

=====

## Tandy's New Color Computer 3

Tandy's new CoCo 3 spec sheets were the talk of the August CCUG meeting. Several members are ordering a CoCo 3 at area Radio Shack Computer stores. Perhaps we may see one of these new machines at the next club meeting. In the meantime, here are a few of the features of the CoCo 3:

- \* 80 X 24 uppercase/lowercase text display
- \* 64 X 32 to 640 X 192 graphics resolution
- \* 128K RAM (expandable to 512K RAM)
- \* Enhanced Extended BASIC
- \* Two clock speeds of 0.894 MHZ or 1.788 MHZ
- \* Additional keys for CONTROL, ALTERNATE, F1 and F2
- \* Regular TV (VHF RF) output, composite monitor output or RGB (analog type, not TTL) monitor output

The CoCo 3 can use any software developed for the CoCo 2 - in the slower 0.894 MHZ CoCo 2 mode. While in the CoCo 3 mode (1.788 MHZ), 21 additional BASIC commands make our CoCo more powerful. Notice that the faster clock speed is twice as fast as the normal CoCo 2 clock speed?

The Tandy Color Computer 3 is stock number 26-3334. Thank you Tandy for <FINALLY> introducing a more powerful CoCo! I have one question to ask the Tandy Top Brass: WHAT TOOK YOU SO LONG?

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## CCUG Meeting Schedule:

The next meetings of the Greater Lansing Color Computer User's Group will be held on September 6th and October 4th at 1:00 pm in the East Lansing Public Library. Guests are welcome to attend!



## UPCO Notes

by Skip Osterhus

## Old business:

Last meeting: July 22th, 1986 at 7:30 p.m.

Place: Room 223 of Natural Resources/MSU campus

Attendance: 38

Door prize: Norton Commander

Winner: John Rooney

Speaker: Bob Trimbach and Cliff Alrec of Graycon

Topic: Epson Equity I, II, and III.

Computer show discussion/vote.

DOM: No

EXCHANGE: No

- 1) Please notify the club of any address changes ASAP. We sometimes have to pay for ENERGY if it can't be delivered!
- 2) Please check the mailing label on each issues of ENERGY that you receive. If your address changes and you do not notify us then you might not get your next issue of ENERGY. Keep in mind that your address label is also a reminder of you current membership status. There will be a message on the the label stating 'Renew now' one month before your membership expires and the month it does expire the message will be 'Expired'. It is important to keep your dues current in order to buy club diskettes and have full access to the bulletin board as well!
- 3) Please check this column for the exact date and location of the meeting each month. Although the calendar in the front of each issue is correct most of the time, this column is the final word on the subject.
- 4) PCjr owners interested in a PCjr SIG may contact Ray Robins at (H) 517-694-1926 or (W) 517-377-9383. If there is enough interest then Ray will schedule a meeting. Please let Ray know of your interest in the PCjr and let's get the SIG of to a good start.
- 5) Take note that our new advertising manager of ENERGY is Andy MacDonald from UPCO. If you have any thoughts about advertising in ENERGY or want some info, please be sure and ask him if you see him at an UPCO meeting. Congratulations Andy for taking over this job for the MC2!
- 6) The next Computer Show in Lansing will be at the Clarion on October 19th, 1986. The Michigan Computer Consortium will not be sponsoring this show. UPCO will probably have a table or two at the show so stop by and visit our table to see if there are any 'SHOW SPECIALS' for our loyal members.

## New business:

Next meeting: September 23, 1986 at 7:30 p.m.

Place: Room 116 of Agricultural Engineering/MSU

Attendance: ?

Door prize: Surprise

Winner: ?

Speaker: ?

Topic: ?

DOM: Maybe ?

EXCHANGE: Expecting July/August

## 1) \*\*\* IMPORTANT \*\*\*

Please note that the September meeting will be back in room 116 of the Agricultural Engineering building on the corner of Farm Land and Shaw on the MSU campus.

- 2) September will be our first election meeting in two years and I hope everybody will attend for this very important decision concerning the club's future. Hope to see everybody there!
- 3) Any member wishing to contribute an article to ENERGY should mail it to the MC2 address listed on the first page of ENERGY each month. Please note that you may submit articles from other publications as well. You don't have to always submit an original article, but if you do send in material from another publication, please make sure you have permission to and give the original authors/source the proper credit. Thanks in advance!
- 4) I have always wondered why some members sign up for UPCO and then never come to any meetings? If there are specific reasons that the club can correct I would appreciate hearing them. I can't promise that that there will be a change in club policy to please a member's wishes, but I do promise to listen. I believe comments are better than no comments!
- 5) If any members have any ideas for the upcoming computer shows that will be held in the Lansing area please contact Dick Luer and convey your thoughts. He can be reached at 517-323-7000 during the day. Dick is the person responsible for seeing that UPCO is properly represented at the shows. He will need some people to volunteer to man the booths when the day of the show arrives so you can let him know that you are available. UPCO should have a better organized booth at this next show and there may be some surprises in store for all who attend. Please tell everybody about the show because it's in our best interest to have a well attended fall show.

This column, with a little luck, your support and paid Dog Licence fees, should appear every month.

This column is written with information from DATA DAWG. The ever calculating, cognizant, conscious canine. The precocious pooch will need your help. You ask how? Simple. Write an article for Energy (He reads it every month for information). Send some gossip that DD can sniff out.

## CONSULTANTS AND MORE?????

The Dawg was chasing a car down Michigan Ave last week when we finally caught up with him. He found out that a local group of independent consultants is in the process of setting up an association. The theory is that if one goes on vacation, one of the other members would cover for that person. If one of the consultant need's assistance with a project they would have the resource to draw upon. DD tells us that after sniffing around, not only does this city need an organization like this, but would support it. But the petty squabbling has already started. Some consultant's want it extremely organized ie; resume, interviews and samples of their work. Other's want it a little more relaxed. The Dawg hopes that it does not disband before it begins.

## ANOTHER COMPUTER SHOW?????????

Could there be? Will there be? Another Computer show coming to the Clarion in the fall? The answer is YES. But all is not doggy heaven in the Capital. It seems that this time around the organizer sent out a letter thanking the commercial exhibitors and asking them to exhibit again in the fall. The

letter made it sound as though the show is supported by the consortium. It isn't. This time they are going to try to make it a commercial venture. These people also have asked the consortium to help sponsor it. DD thinks these people are barking up the wrong tree. In fact, the Dawg knows UPCO wants nothing to do with it (other than renting a booth). Let's hope the other clubs feel the same way. Let's wish them (the sponsors) all the success in the world. No "bones" about it, we hope it comes off with out a hitch.

## California Dawg

The Dawg is going to "DO MALIBU MAN" this month. We hear tell that he is on his way to Cupertino. When he get's back we will find out if Bill Gates has any skeletons in the backyard over at Apple. (For the MAC that can run DOS applications) If any one can find buried bones it's the Dawg.

You like this column so far? GREAT! So send a HOT TIP to:

Energy  
P.O. Box 1302  
East Lansing, MI 48823

The editor knows which fire hydrant to put your tip under. Get an official DATA DAWG COLLAR if the dawg uses your tip in his column. (When resources are available.)

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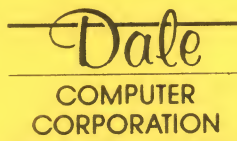
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JACK MCGINNIS  
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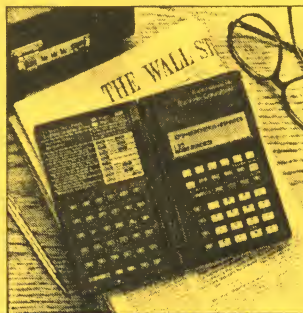
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